



FIA FORMULA 1 WORLD CHAMPIONSHIP



2025 SPANISH GRAND PRIX

30 May - 01 June 2025

From	The FIA Formula One Technical Delegate	Document	44
To	The Stewards	Date	01 June 2025
		Time	19:00

Technical Delegate's Report

Before the Race:

A floor edge deflection test was carried on car number 63.

A front floor deflection test was carried on car numbers 14 and 06.

The height of the front wing gurneys was checked on car numbers 16, 44, 01, 22, 12, 10, 43, 31, 87, 23, 55, 27 and 05.

The height of the rear wing gurney was checked on all cars.

Clutch paddle linearity checks have been carried out on cars 55 and 05.

A fuel sample was taken from car numbers 16, 22 and 87.

An engine oil sample was taken from car numbers 16 and 87.

On the grid it was checked that all cars had fitted their tyres and the tyre heating blankets were disconnected, when the "5-Minutes" signal was given.

On the grid the temperature of the LHS and RHS front and rear tyre was checked on car numbers 81, 04, 16, 44, 01, 63, 14, 43, 87, 06, 30 and 55.

On the grid the minimum tyre starting pressure of the LHS and RHS front and rear tyre was checked on all cars.

After the Race:

The following cars were weighed:

Number	Car	Driver
81	McLaren Mercedes	Oscar Piastri
04	McLaren Mercedes	Lando Norris
16	Ferrari	Charles Leclerc
44	Ferrari	Lewis Hamilton
01	Red Bull Racing Honda RBPT	Max Verstappen
22	Red Bull Racing Honda RBPT	Yuki Tsunoda
63	Mercedes	George Russell
14	Aston Martin Aramco Mercedes	Fernando Alonso
10	Alpine Renault	Pierre Gasly
43	Alpine Renault	Franco Colapinto
31	Haas Ferrari	Esteban Ocon
87	Haas Ferrari	Oliver Bearman
06	Racing Bulls Honda RBPT	Isack Hadjar
30	Racing Bulls Honda RBPT	Liam Lawson
55	Williams Mercedes	Carlos Sainz
27	Kick Sauber Ferrari	Nico Hülkenberg
05	Kick Sauber Ferrari	Gabriel Bortoleto

The following aerodynamic component or bodywork areas were checked on car numbers 81, 63 and 27:

- | | |
|----------------------------|--------------------|
| - Floor Body | - TR Article 3.5.1 |
| - Floor Fences | - TR Article 3.5.2 |
| - Floor Edge Wing | - TR Article 3.5.3 |
| - Nose | - TR Article 3.6.1 |
| - Forward Chassis | - TR Article 3.6.2 |
| - Mid Chassis | - TR Article 3.6.3 |
| - Mirror Housing | - TR Article 3.6.4 |
| - Sidepod | - TR Article 3.7.1 |
| - Coke Panel | - TR Article 3.7.2 |
| - Engine Cover | - TR Article 3.7.3 |
| - Tail | - TR Article 3.8.1 |
| - Front Wing Profiles | - TR Article 3.9.1 |
| - Front Wing Endplate body | - TR Article 3.9.2 |
| - Front Wing Tip | - TR Article 3.9.3 |
| - Front Wing Diveplane | - TR Article 3.9.4 |
| - Front Wing Endplate | - TR Article 3.9.5 |

- Rear Wing Profiles - TR Article 3.10.1
- Pylons - TR Article 3.10.2
- Rear Wing Beam - TR Article 3.10.3
- Rear Wing Endplate Body - TR Article 3.10.4
- Rear Wing Tip - TR Article 3.10.5
- Rear Wing Endplate - TR Article 3.10.7

The plank and skid wear was checked on all classified cars.

The fuel pressure of all cars during the race was checked.

The logged pressure within the engine cooling system during the race was checked on all cars.

The engine high rev limit bands were checked on all cars.

Fuel flow meter calibration checksums were checked on all cars.

The instantaneous fuel mass flow of all cars was checked.

The partial load fuel mass flow of all cars was checked.

The fuel temperature of all cars was checked.

The plenum temperature was checked on all cars.

The oil consumption was checked on all cars.

The exhaust fluid mass flow of all cars was checked.

The IVT temperatures were checked on all cars.

The ES state of charge on-track limits were checked on all cars.

The lap energy release and recovery limits were checked on all cars.

The MGU-K power limits were checked on all cars.

The maximum MGU-K speed was checked on all cars.

The maximum MGU-K torque was checked on all cars.

The maximum MGU-H speed was checked on all cars.

The MGU-K use at the race start was checked on all cars.

It was checked on all cars that the ES was not charged while the car was stationary in the pits.

The torque coordinator demands were checked on all cars.

The torque control was checked on all cars.

The session type has been confirmed for all cars.

Chassis FIA checksum was checked on all cars taking part in the race.

The rear brakes pressure control was checked on all cars.

The brake temperature warnings were checked on all cars.

The steering wheel of all classified cars has been checked.

The race start data of all cars have been checked.

Single clutch paddle use for the race start has been checked on all cars.

It was checked that no classified car exceeded 80 km/h when leaving the formation grid prior to the start of the race.

It was verified on all cars that the PCU dash display configuration was not changed during Parc Fermé.

The tyre starting pressures of all cars during the race were checked.

The tyres used by all drivers during the race today have been checked.

The tyres cold pressure of the second race stint set was checked on car numbers 44 and 63.

A fuel sample was taken from car number 01.

The fuel samples have been checked for density and analysed by gas chromatography.

The results of all the fuel analyses show that the fuels were the same as ones, which had been approved for use by the relevant competitors prior to the Competition.

Further the density change of the fuel samples taken today was within the permitted limits.

An engine oil sample was taken from car number 01.

The engine oil samples have been analysed by FTIR spectroscopy and viscometry.

The results of the FTIR analyses show that the sampled oils were consistent with reference engine oil samples which had been approved for use by the relevant competitors prior to the Competition.

All car weights and the items checked were found to be in conformity with the 2025 FIA Formula One Technical Regulations.

Jo Bauer

The FIA Formula One Technical Delegate